STAIN TECHNOLOGY

VOLUME III

1928

Published by the
COMMISSION ON STANDARDIZATION OF BIOLOGICAL STAINS
GENEVA, N. Y., U. S. A.

CONTENTS

No. 1, January, 1928

The History of Staining
The Pioneers in Staining. H. J. Conn 1
Stain Solubilities. W. C. Holmes 12
A Discussion of Some of the Factors Causing Variable Results with Flagella Stains. William H. Wright 14
Metallic Lakes of the Oxazines (Gallamin Blue, Gallocyanin and Coelestin Blue) as Nuclear Stain Substitutes for Hematoxylin. F. Proescher and A. S. Arkush 28
Notes on Technic
Method of Preparing Slides for Class Use. H. W. Hann 39
Fast Green, a substitute for Light Green FS Yellowish. Rachel Haynes 40

No. 2, April, 1928

Progress in the Standardization of Stains
Stain Substitutes. H. J. Conn 41
The Spectrophotometric Evaluation of Mixtures of Methylene Blue and Trimethyl Thionin. Walter C. Holmes 45
The Effect of Preliminary Treatment (Fixing Fluids) on Staining Properties of the Tissues. Alexander V. Tolstoouhov 49
Staining Cell Constituents in Diseased Plant Tissues. J. Dufrenoy 57
Further Studies on a Modification of the Gram Stain. Nicholas Kopeloff and Peter Cohen 64
Discussion of Paper on "Metallic Lakes of the Oxazines as Nuclear Stain Substitutes for Hematoxylin." Percy A. Houseman 70
Notes on Technic.
A New Substitute for Ethyl Alcohol in the Gram Stain. H. J. Conn 71

No. 3, July, 1928

Cultural Separation of Bacteria on the basis of Triphenyl Methane Co-efficients. John W. Churchman and Louis Siegel 73
The Effect of the Chemical Nature of a Decolorizer on its Functioning. I. The Gram Classification. Allen E. Stearn and Esther Wagner Stearn 81
II. The Apparent Isoelectric Point. Esther Wagner Stearn and Allen E. Stearn 87
Certain Factors Influencing the Staining Properties of Fluorescein Derivatives. H. J. Conn and W. C. Holmes 94

No. 4, October, 1928

Progress in the Standardization of Stains
Five Years of Stain Standardization 105
The History of Staining
Cochineal Dyes. H. J. Conn and S. I. Kornhauser 110
Reactions of Basic Dyes with Cyclic Derivatives of an Acid Character. W. C. Holmes and M. Hann 122
Notes on Stain Application. R. W. French 130
Investigation of Thiazin Dyes as Biological Stains. II. Influence of Buffered Solutions on Staining Properties. Rachel Haynes 131
Wright's as a Differential Spore Stain. L. O. Dutton 140
Notes on Technic
Types of Safranin and Their Use. Rachel Haynes 143